

ABSTRACT OF THE DISCLOSURE

In a cooling system of an internal combustion engine, coolant flowing through a radiator and bypassing the radiator are mixed in a flow control valve controlled by ECU on the basis of signals provided by sensors such as a coolant temperature sensor, so that the coolant is circulated by an electric pump to control the coolant temperature for the internal combustion engine. A desired coolant temperature is changed according to the operating condition of the internal combustion engine, the traveling condition of a vehicle and the ambient condition. Thus, the temperature of the coolant flowing into the internal combustion engine is changed properly so that frictional resistance in the engine and exhaust gas may be reduced and the internal combustion engine may be kept at its most efficient temperature near a detonation limit temperature.